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Best Practice Title/Identifier:	Time Out for Safety	
Please provide a brief description of the best practice you are submitting for your site: The "Time Out for Safety" program empowers individual workers who perceive that there is a potential safety or health hazard associated with a task they are performing to stop work and take "time out for safety" without the fear of negative consequences. The program at WSSRAP is not formalized as a procedure, but is backed by a policy statement signed by DOE and Project Management Contractor managers. The success of "Time Out for Safety" can be attributed to the fact that the program was developed by the line workforce and supported by management. The right to take a "Time Out for Safety" is a topic at the site's initial General Employee Training (GET) session and continually reinforced. "Time Out for Safety" is supported by both our Union and Non-Union workforce and is instrumental in maintaining the safety culture at WSSRAP.		
Please check the □ Management Le		
Other (please spe	cify):	



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Best Practice Title/Identifier:	Morning Safety Meetings	
Please provide a brief description of the best practice you are submitting for your site: Each morning before any work activities are performed, a meeting is held at each subcontractor or crew work area. The purpose of the meetings is to review the hazards as identified in the Task Specific Safety Assessment (TaSSA) or Safe Work Plan for the particular work activity to be performed. The success of the morning meetings is that workers provide input and open discussions concerning the work activities addressed in the TaSSA or Safe Work Plan. The meeting provides an opportunity to review lessons learned, employee concerns, changed conditions, other work activities in the area and potential hazards. The meetings have evolved into a very open time for workers to be a part of the safety and health programs.		
Please check th	ne applicable category for your best practice:	
☐ Management L	eadership	
☑ Employee Involution	Vement	
Other (please spe	cify):	



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Best Practice Title/Identifier:	Blue Card Program
Please provide	a brief description of the best practice you are submitting for your site:
engineers, safety cards are the che forms of blue car operation, the blu the blue card pro	rogram is a self-inspection program where field personnel, including construction supervisors, and ES&H personnel document the inspection on a blue card. These blue ecklists that provide guidance to representatives conducting the walkthroughs. Various rds are used based on the nature of the activity. For example: for an excavation ue card specifically designed for excavation is used. The information gathered from gram is summarized by various categories and the summary of these findings is bject managers on a weekly basis.
Please check ti	he applicable category for your best practice:
☐ Management L	
✓ Employee Invo	Ivement
Other (please spe	cify):



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Best Practice Title/Identifier:	Teaming to Improve Prod	uctivity and Safety	(TIPS) at WSSRAP
Please provide	a brief description of the b	est practice you a	are submitting for your site:
The Teaming to Improve Productivity and Safety (TIPS) program was established to provide a process whereby site continuous improvement suggestions could be achieved in a cost effective and efficient manner. To date the TIPS program has recorded 3924 suggestions, of which 3883 have been completed (implemented or closed), and 41 are pending. TIPS improvements are usually evaluated and implemented by an individual. This fosters a sense of responsibility for determining feasibility and practicality of the improvement. Management encourages participation and fostering ideas and suggestions for continuous improvement.			
Please shock th	e applicable category for	vour bost prostice	
		•	
✓ Management Le	•	•	☐ Safety and Health Training
✓ Employee Invol	rement	vention and Control	
Other (please spec	ify):		



Name:	Jim Brown / Bennie Efird	
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Best Practice Title/Identifier:	The Wackenhut Integrated Safety Committee / employee user groups evaluate proposed equipment.	
Please provide a brief description of the best practice you are submitting for your site: The Integrated Safety Committee (ISC) was created to provide a continuing review of the following: (1) WSI-SRS policies and practices relating to performance-based training (which includes the use of firearms, munitions, and related equipment) to ensure that an adequate level of safety and risk assessment isprovided; (2) the creation or significant modification of permanent posts and fighting positions; and (3) the first time procurement of equipment (e.g., tactical vests, firearms, holsters, and uniforms), post equipment (e.g., portable x-ray equipment and hand-held detectors), office furniture (e.g., desks, chairs, stools, and computer workstations), and special use vehicles for specific applications. CONTINUED ON NEXT PAGE		
Please check th ☑ Management Le ☑ Employee Invol		
Other (please spec	The Five Core Functions of the DOE ISMS	

Brief description of the best practice (cont.):

A cross-functional users' group is a mix of nonsupervisory personnel representative of all anticipated users An example of a users' group evaluation is the proposed handgun change. A users' group of 26 potentially affected employees, plus the Senior Armorer and Armorer, the Firearms Instructors, and the Senior Operational Safety Officer, to evaluate a wide variety of handguns and make a recommendation to the ISC. This user's group's members varied in height, weight, sex, dominant hand (right or left), and hand size. After the evaluation, the user's group's recommendation was reviewed; and WSI is pursuing the purchase of thehandgun the users' group recommended.



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Best Practice Title/Identifier:	Passport to Excellence
Please provide	a brief description of the best practice you are submitting for your site:
booklets, one for for distributed. Each bo activities range from meetings, performing such as performing staff meetings, and a VPP and ISM progra	Im is voluntary for all INEEL employees as well as DOE-ID employees. Three Passport remen and above, one for LMITCO employees, and one for DOE-ID employees were oklet contains 25 activities of which the employees may choose 20 to complete. The participating in safety-related activities (such as the Safety Bowl, Safety EXPO, safety g hazard assessments, participating in worksite analysis, etc.), environmental activities environmental assessments of their work areas and presenting Environmental topics at activities that help make employees aware of procedures and processes that implement ms (such as attending Company Safety team meetings, reading the Unit Charters, oals and Action Plans).
Please check th	ne applicable category for your best practice:
☐ Management Le	eadership Worksite Analysis Safety and Health Training
✓ Employee Invol	vement
Other (please spec	eify):



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Best Practice Title/Identifier:	Safety Bowl	
Please provide	a brief description of the best practice you are submitting for your site:	
The Safety Bowl is held in the same format as a College Bowl. 400 questions from the following work disciplines (Fire protection, Security, Environmental, Industrial hygiene, Industrial safety, Radiation control, Emergency preparedness, Union representation, Voluntary Protection Program and the Integrated Safety Management system) were sent out to all participants. Each team searched procedures and documentation find the answers to the questions. The top four teams participated in the final safety Bowl to determine 1st, 2nd, 3rd and 4th place winners. The First and Second place winners were sent to the VPPPA National Conference. This activity promotes teamwork and gives employees the opportunity to learn about other disciplines.		
Please check th	ne applicable category for your best practice:	
☐ Management Le	eadership Worksite Analysis Safety and Health Training	
✓ Employee Invol	vement	
Other (please spec	cify):	



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E-mail:	scc@inel.gov	
Best Practice Title/Identifier:	Union Safety Summit	
Please provide a brief description of the best practice you are submitting for your site: The INEEL site has over 20 different unions and subcontractors providing a major portion of the 6000 plus workforce. The largest ones are: Paper Allied & Chemical Engineering Employees (PACE); Amalgamated Transit Union (ATU); Building Trades Union; Teamsters, Chauffeurs, Warehousemen and Helpers Union; United Plant Guard Workers of America (UPGWA); and various subcontractors. The President of LMITCO, the Manager of DOE-ID and the Presidents of the above unions and subcontractors signed a "Statement of Endorsement" in support of the VPP program. The Union Summit was developed and implemented by the Unions and subcontractors. Representatives from the above organizations meet regularly to discuss safety concerns and are committed to providing a safe and healthy work environment for all the workers at the INEEL.		
Please check tl	ne applicable category for your best practice:	
✓ Management L	eadership Worksite Analysis Safety and Health Training	
☐ Employee Invo	Ivement	
Other (please spe	cify):	



Name:	James F Dickman	
Organization:	Fluor Daniel Hanford Environment Safety and Health	
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FAX:	(509) 373-0242	
E-mail:	james_f_dickman@rl.gov	
Best Practice Title/Identifier:	Union Safety Representative (Hanford Atomic Metal Trade Council)	
Please provide a brief description of the best practice you are submitting for your site:		
established a union sa called have been instru- esolution at the lowes concerns from union is Reps have been empo- o the president's level	DH) in concert with the local union (HAMTC) and the Operations Office (RL) has fety position within each company in the PHMC. These HAMTC Safety Reps, as they are unental in reducing the number of formal safety concerns by working issues to st possible level. They have been very effective at the worker level with sorting safety saues and helping develop an improved appreciation for safety. The HAMTC Safety wered to interact at all levels within the PHMC and frequently work issues up the chain at the various contractor companies. The seven Reps handled just over one thousand an estimated cost avoidance of over three million dollars.	
Please check th	ne applicable category for your best practice:	
☑ Management Le		
☑ Employee Invol	vement	
Other (please spec	eify):	



	James F Diskman
Name:	James F Dickman
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Best Practice	Hanford General Employee Training (HGET) VPP Survey
Title/Identifier:	
Please provide	a brief description of the best practice you are submitting for your site:
	e effectiveness of implementation efforts the Hanford VPP Champions
	an employee feedback tool. The tool consists of fifteen statements the DOE VPP criteria. Each of the five tenets has three statements
	it makeing up the fifteen total. Employees taking HGET for the first time do
	ey to assure that those taking the survey have had at least one year of
	program. As the employee goes through the survey they are requested to el of agreement with the statement. Responses range from Strongly
Disagree to Stro	ngly Agree with five options e.g. agree, neutral, disagree. With 100% of the
	ation captured this has turned into a very effective tool to measure the ulture) of Project Hanford workers.
	ne applicable category for your best practice:
✓ Management Le	eadership
✓ Employee Invol	vement
Other (please spec	ify):



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FAX:	(816) 997-7257	
E-mail:	sgilmore@kcp.com	
Best Practice Title/Identifier:	JHA & ESAP systems	
Please provide a brief description of the best practice you are submitting for your site:		
information. The Jo (ESAP) are two suc driven basis, while allow for electronic efficiency and effec	nic data systems has revolutionized access, retrieval, and processing of safety ob Hazard Analysis (JHA) system and the Environmental Self Assessment Program ch systems at FM&T/KC. The JHA system facilitates hazard identification on a task ESAP is used for identification of potential hazards within the work environment. Both generation, storage, and subsequent access. These features increase both safety ctiveness. Line management is responsible for both ESAP and JHA implementation, isters, tracks, and trends site-wide data. Together, these systems serve to integrate organization.	
Please check th	ne applicable category for your best practice:	
☐ Management Le		
☐ Employee Invol	•	
Other (please spec	cify):	



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Best Practice Title/Identifier:	Observation and Feedback Process
Please provide	a brief description of the best practice you are submitting for your site:
all employees in every an observation process observe one another w observers use checklis anonymous and volunt	r driven and management approved. The success of the program relies on capacity, knowing their roles and responsibilities. It was developed by the workers as and as part of a Total Safety Culture. This is a process where workers routinely rorking and provide feedback on the positive and negative behaviors observed. The sets to guide their observations on safety-related behaviors. All observations are tary. The checklists are entered into a database for tracking and trending in order to afety can be improved. The purpose of the program is to increase safe behaviors and iors.
Please check th	ne applicable category for your best practice:
☐ Management Le	eadership Worksite Analysis Safety and Health Training
✓ Employee Invol	vement ✓ Hazard Prevention and Control



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FAX:	(630) 252-2942		
E-mail:	elangenberg@anl.gov		
Best Practice Title/Identifier:	A Tool to Identify Individual Job Hazards		
Please provide a brief description of the best practice you are submitting for your site:			
Argonne National Laboratory-East uses a tool (an eight page "Job Hazards Questionnaire") to identify an individual's job hazards through a series of questions. This information is entered into a database which is used to: 1: Complete an assessment of an individual's hazards encountered on the job;			
2: Link hazards to	training requirements to produce an individual's training profile;		
4: Provide reports to individuals and management (e.g., identify entire populations with specific hazard exposures, provide input for medical surveillance, assist with investigations and assessments).			
Please check the applicable category for your best practice:			
☐ Management Le	eadership		
☐ Employee Invol	Ivement		
Other (please spec	Other (please specify):		

ANL Job Hazard Questionnaire



1

Employee Name	Badge Number
Employee Signature	Deta
Job Title	
Division/Department	
Supervisor Name	Bedge Number
Supervisor Signature	Date
ESH Coordinator Name (Name and Signature are optional)	
ESH Coordinator Signature	Date

INTRODUCTION

The answers to this questionnaire will be used to identify requirements and suggestions for training in the areas of environment, safety, and health protection. The answers will also be used to identify needs for medical evaluations (monitoring for potential work-related health effects) and certifications (confirmation of appropriate physical abilities and health status), and should reflect current job responsibilities.

A questionnaire must be completed for all regular and temporary employees who work more than two weeks per year on the ANL-E site or off-site for ANL-E projects, and by individuals on work contracts who work more than two weeks per year at the ANL-E site (does not include construction workers). In addition, questionnaires must be updated when job assignments or job hazards change. The supervisor and employee are jointly responsible for the accuracy of the information provided. If employees do not complete the questionnaires themselves, they should be made aware of the answers provided.

- INSTRUCTIONS

1. Fill in the blanks on page 1.

If a group of employees with the same supervisor will have an identical set of responses, a single questionnaire ("template") may be completed along with supplementary signature form ANL-521A.

2. Answer all of the questions.

Many of the questions have multiple levels. For each question preceded by two boxes, provide an answer by entering a \checkmark in either the YES or NO box. If the answer is "NO," proceed directly to the next question with two boxes. If the answer is "YES," follow the instructions provided.

Definitions for the vocabulary used in the questionnaire are printed on page 8.

3. Submit the questionnaire to either the ESH Coordinator or the Training Management System (TMS) Representative for your division or department.

Individual divisions and departments will specify the preferred routing.

The TMS Representative will (a) enter the answers into the Laboratory's computer database, (b) generate and distribute a curriculum, (c) coordinate retention of the completed questionnaires, and (d) register employees for scheduled classes.

Dutie	s and	Responsibilities (Λ
D1	Yes No	is the person an ANL EMPLOYEE, or does the person have a TEMPORARY ANL APPOINTM or work contract for other than construction work? (If YES, check all that apply.)	ENT
		D1.1 Works at the ANL-E site more than two weeks per year. If YES, write the building number(s) which work is done.) in
		D1.2 Works off site at a nonradiological facility	
		D1.3 Works at an off-site area remote from emergency resources	
		D1.4 Occasionally works in an extremely hot or cold environment or supervises those who do	
		D1.5 Works off site at a radiological facility (including ANL-W)	
D2	Yes No	Does the person have any of the following duties or responsibilities associated with use of COMPUTERS? (If YES, check all that apply.)	
		D2.1 Uses, supervises, or manages the use of computers (requires computer protection training))
		Uses a computer or other video display terminal more than 4 hours per day (suggested ergonomics training)	
		b2.3	
D3	Yes No	Is the person a RECORDS COORDINATOR or alternate?	
D4	₩ No	Does the person work primarily (50% or more) in an OFFICE?	
D5	Yes No	Does the person supervise STUDENTS?	
D6	Yes No	Does the person OPERATE A VEHICLE as part of assigned responsibilities (does not include use of personal vehicle less than 5 hours per week)? (If YES, check all that apply.)	
		Drives a Laboratory, rental, or personal vehicle on or off site for Laboratory business more to 5 hours per week	
		D6.2 Operates heavy equipment, including front loader/skid loader (requiring commercial driver's license)	
		De.3 Operates a commercial vehicle (>26,000 pounds) off site	
D7	Yes No	Does the person have any of the following ES&H OR QUALITY ASSURANCE duties or responsibilities, including acting as a designated alternate? (If YES, check all that apply.)	
		D7.1 Environment, Safety, and Health Coordinator for an organization that DOES NOT generate hazardous waste requiring pickup by Waste Management Operations (WMO) for proper disposal	
		D7.2 Environment, Safety, and Health Coordinator for an organization that DOES generate hazardous waste requiring pickup by Waste Management Operations (WMO) for proper disposal (Check the one that applies.)	
		D7.2.1 An R&D organization	
		07.2.2 A support organization	
		D7.3 Environmental Compliance Representative for an organization that DOES NOT generate hazardous waste requiring pickup by Waste Management Operations (WMO) for proper disposal	
		D7.4 Environmental Compliance Representative for an organization that DOES generate hazardo waste requiring pickup by Waste Management Operations (WMO) for proper disposal (Check the one that applies.)	US
		D7.4.1 An R&D organization	
		D7.4.2 A support organization	
		D7.5 Safety Coordinator	
		D7.6 Chemical Hygiene Officer	
		D7.7 Quality Assurance Representative (QAR) or Quality Assurance Coordinator	

D8 🔲 🖂	Does the person have any of the following ADMINISTRATIVE OR MANAGEMENT responsibilities? (If YES, check all that apply.)
	DB.1 Management position (e.g., Division Director, Department Head, or Project/Program Manager) in an organization that: (If YES, check the one that applies.)
	DS.1.1 Generates hazardous waste
	D8.1.2 Does NOT generate hazardous waste
	De.2 Building Administrator, Building Manager, designated alternate, or division-level equivalent
	De.3 Property Representative
D9 G G	Does the person have any of the following SAFETY-RELATED TECHNICAL RESPONSIBILITIES? (if YES, check all that apply.)
	D9.1 Material Balance Custodian, Nuclear Material Custodian, Division Nuclear Material Contact, or their designated alternates
	D9.2 Accelerator Operator
	D9.3 Reactor Operator
	D9.4 Nuclear Material Handler
	D9.5 Fissile Material Handler (defined in Nuclear Safety Procedures Manual)
D10 🔲 🔲	Does the person have any of the following duties or responsibilities related to CONSTRUCTION work? (If YES, check all that apply.)
	D10.1 Occasionally supervises, oversees, or inspects low-risk construction or installation contract work on site (e.g., Building Managers and project managers)
	D10 2 Serve as a Competent Person for excavations
	D10.3 Serve as a Construction Field Representative, Construction Safety Inspector, or a Construction Project Manager for PFS, EMO, or APS
D11 🔲 🔲 Yes No	is the person a HEALTH-CARE worker?
D12 🔲 🔲	Does the person have any of the following responsibilities in the ANL-E EMERGENCY MANAGEMENT program? (If YES, check all that apply.)
	D12.1 Area Emergency Supervisor or Alternate
	D12.2 Building Emergency Monitor or Alternate
	D12.3 Fire Fighter/Paramedic
	D12.4 Incident Commander
	D12.5 Crisis Manager or Technical Support Center Manager
	D12.6 Staff in Technical Support Center or Emergency Operations Center D12.7 Recovery and Reentry Team Member
	D12.7 Hecovery and Reentry Team Member D12.8 Medical Department Response Team
	D12.9 Protective Force (MSI)
D13 🔲 🔲 Yes No	Does the person need to learn about the use of FIRE EXTINGUISHERS? (If YES, check all that apply.)
	013.1 Orientation for awareness and potential use
	D13.2 Hands-on training for proficiency
<u></u>	OFFICE WORKER OPTION
	ere if the person WORKS ONLY IN A NORMAL OFFICE ENVIRONMENT and answer to 14.1 and 1914.2.
D14.1 🔲 🔲 Yes No	Does the person routinely ENCOUNTER (without a need for entry) areas posted with RADIOLOGICAL warning signs?
D14.2 T TYPES NO	Does the person maintain, modify, connect, or repair ELECTRICAL/ELECTRONIC EQUIPMENT with potential for exposure to energy greater than 50 volts AC (does not include normal operation of office equipment)?
Stop he then the	re if you work only in a normal office environment. If only pages 1, 2, and 3 are completed, ESH Coordinator's signature MUST be on page 1. All other personnel should also complete pages 4-8.

Radio	Radiological A.A.		
R1	Yes No	Does the person routinely ENCOUNTER (without a need for entry) areas posted with RADIOLOGICAL warning signs?	
R2	Yes No	Must the person enter, without an eccort, a radiologically controlled area and is his/her anticipated annual dose from internal and external sources LESS THAN 100 millirem?	
R3	Ves No	Does the person anticipate receiving an annual occupational radiation dose of 100 millirem OR MORE from internal and external sources?	
R4	Yes No	Does the person work with DISPERSIBLE radioactive material in quantities greater than 2% of the ALI (annual limit of intake)? Contact ESH-Health Physics if you need assistance to answer this question.	
R5	Yes No	Must the person ENTER, without an escort, any area posted with one of the following RADIOLOGICAL warning signs? (If YES, check all that apply.) R5.1 Radiation Area R5.2 Radiological Buffer Area R5.3 Contamination Area R5.4 High or Very High Radiation Area R5.5 Airborne Radioactivity Area	
R6	Yes No	Must the person use any personal PROTECTIVE CLOTHING OR EQUIPMENT for radiological protection? (If YES, check all that apply.) R6.1	
R7	Yes No	Does the person work with any form of tritium or alpha-emitting radionuclides in quantities greater than 2% of the ALI (annual limit of intake)? (If YES, check all that apply.) 87.1 Tritium 87.2 Alpha-emitting nuclides, e.g., uranium or plutonium	
R8		Is the person responsible for maintaining an organization's inventory of SEALED RADIOACTIVE SOURCES?	
R9	Yes No	Does the person operate, use, maintain, or inspect any RADIATION GENERATING DEVICES or supervise those who do? (If YES, check all that apply.) R9.1	
R10	Yes No	Is the person required to have unescorted access to radiologically controlled areas at an accelerator facility?	
R11	Yes No	Does the person design, engineer, or serve as a construction project manager or ALARA coordinator for any RADIOLOGICAL FACILITIES OR EQUIPMENT?	
Physi	cal Ho	azards &	
P1	Yes No	Does the person work with, supervise work with, or have significant potential for harm from (see DEFINITIONS, page 8) exposed sources of ULTRAVIOLET (uv) radiation other than sunlight (e.g., welding, metal vapor lamps, gas discharge lamps, plasma discharges, uv lasers, sterilizers, illuminators, uv spectrometer alignment or maintenance, uv photography)?	
P2	Yes No	Does the person work with or have significant potential for exposure (see DEFINITIONS, page 8) to MICROWAVE OR RADIOFREQUENCY radiation or supervise such work (does not include communication equipment and domestic microwave ovene)?	

P3 G G	Does the person work with or have significant potential for exposure (see DEFINITIONS, page 8) to MAGNETIC FIELDS greater than 60 millitesta or supervise such work? If uncertain, consult your ESH Coordinator.
P4 Yes No	Does the person (a) work with or supervise work with Class 3 or Class 4 LASERS, including those that are components of other equipment, (b) have a potential for exposure to laser radiation, or (c) serve as a laser custodian (does not include bar code readers, laser pointers, laser printers, laser disk drives)? (If YES, check all that apply.)
	P4.1 User or supervisor
	P4.2 Safety watch (for electrical work)
P5 Yes No	Is the person regularly required to use PERSONAL PROTECTIVE EQUIPMENT (PPE), including any of the following: safety glasses or other eye protection, hearing protection, hard hat, foot protection, gloves for chemicals or physical hazards?
P6	Does the person use RESPIRATORY PROTECTION equipment or supervise those who do? (If YES, check all that apply.)
	Ps.1 Uses negative-pressure air-purifying respirator (e.g., half-face or full-face respirator with air-purifying cartridges)
	Ps.2 Uses self-contained breathing apparatus (SCBA), air-line supply respirator, or supplied-air hood Ps.3 Supervises work requiring respiratory protection equipment, but does not need to use the equipment.
P7	is the person exposed to more than 85 dBA time-weighted average (requires raised voice for conversation) NOISE for more than 30 days per year or does the person supervise others exposed to that level of noise?
P8 T T	Does the person work with or supervise work with CRYOGENIC FLUIDS (e.g., liquid nitrogen, helium, argon, or oxygen) or in a space where cryogenic fluids are used?
P9	Does the person work with or supervise work with COMPRESSED GASES, compressed gas control devices, or equipment for transporting compressed gas cylinders?
P10 Yes No	Does the person have any of the following responsibilities for ELECTRICAL WORK? (If YES, check all that apply.)
	P10.1 Maintains, modifies, connects, or repairs electrical/electronic equipment with potential for exposure to energy greater than 50 volts AC (does not include normal operation of office equipment)
	P10.2 Supervises persons who maintain, modify, connect, or repair electrical/electronic equipment with potential for exposure to energy greater than 50 volts AC (does not include normal operation of office equipment)
	P10.3 Works on or approves work on energized circuits ("WORKING HOT") with electrical equipment having potentials greater than 50 volts AC (e.g., modifying, maintaining, wiring, repairing)?
	P10.4 As safety watch for "hot work" on electrical systems? P10.5 As electrical distribution lineman?
P11 G G	Does the person have any of the following direct or indirect responsibilities for LOCKOUT/TAGOUT to prevent the release of energy or unexpected startup of equipment during repair, maintenance, or installation activities? (If YES, check all that apply.)
	P11.1 Applies locks and tags to energy control devices (e.g., electrical breakers or valves)
	P11 2 Normally operates equipment that will be locked out during repair and maintenance activities (i.e., an "affected employee" per ESH Manual Chap. 7-1)?
	P11.3 Supervises others who are authorized to lock out equipment or work with equipment that requires lockout for repair or maintenance?
P12 U Ves No	Does the person enter CONFINED SPACES, serve as an attendant for confined-space entry, or sign confined-space entry permits?
P13 T T	Does the person SUPERVISE those who enter CONFINED SPACES, serve as an attendant for confined-space entry, or sign confined-space entry permits?

P14 Pes No	Does the person use ladders or other CLIMBING EQUIPMENT to work above 6 feet? (If YES, check all that apply.) P14.1 For construction work P14.2 For non-construction work
P15	Does the person's work involve use of SCAFFOLDS OR PLATFORMS? (If YES, check one.) P15.1 Uses equipment P15.2 Supervises use of equipment
P16 C C	Is the person regularly required to LIFT more than 20 pounds (includes furniture moving)?
Chemical	and Biological
C1 🖳 🗀	Does the person routinely work with significant (see DEFINITIONS, page 8) amounts of HAZARDOUS MATERIALS (e.g., chemicals, chemical products, or compressed gases)? (If YES, check one.) C1.1
C2 Um No	Does the person SUPERVISE those who work with HAZARDOUS MATERIALS (e.g., chemicals, chemical products, or compressed gases)? (If YES, check one.) C2.1
C3 Ves No	Does the person work with any of the following types of HAZARDOUS CHEMICALS or chemical products? (If YES, check all that apply.) C3.1
C4	Does the person work with INORGANIC LEAD under conditions where significant exposure is likely? Does not include occasional laboratory work with lead salts and lead bricks. If uncertain, consult your ESH Coordinator. (If YES, check one.) C4.1 Handles inorganic lead with low to moderate potential for exposure (e.g., shielding, fabrication, construction, storage) C4.2 Works in environments having airborne inorganic lead at or above 30 micrograms per cubic meter
C5 Vac No	Do the person's responsibilities include ASBESTOS abatement or handling, or work with potential for asbestos contact, as a worker, supervisor, manager, planner, or inspector (Classes I, II, III, IV asbestos work as defined by the OSHA Construction Industry Standard)? (If YES, check all that apply.) C5.1 Performs Class I and/or Class II asbestos removal work C5.2 Performs Class III asbestos work (includes contacting and disturbing asbestos) C5.3 Performs Class IV asbestos work (includes potential contact with asbestos, e.g., working above ceillings) C5.4 Supervises performance of Class I and/or Class II asbestos removal work C5.5 Prepares or approves work plans for Class I and/or Class II asbestos removal work C5.6 Collects samples to Identify asbestos-containing materials (ACM) and assesses the condition of ACM (includes building asbestos Inspectors) C5.7 Assesses hazards posed by asbestos-containing materials and determines the scope and timing of response actions

C6	Yes No	Does the person's work have the potential for exposure to human blood, other human body fluids, medical waste, restroom waste, open wounds, or excised tissues, or does the person supervise such work? (If YES, check one.)
		Cs.1 In R&D activities
		C6.2 In support activities
C7	Yes No	Does the person work with biological materials such as bacteria cultures or toxins, virus cultures, medical waste, animals or animal waste, sanitary sewage, or supervise such work?
Envir	onmei	ntal Protection and Waste Management
E1	Yes No	Does the person either (a) work with hazardous waste or (b) generate HAZARDOUS WASTE requiring pickup by Waste Management Operations (WMO) for proper disposal. (If YES, check all that apply.)
		E1.1 As part of R&D activities
		E1.2 As part of support activities
		E1.3 At a permitted Treatment, Storage, and Disposal Facility (TSDF) E1.4 At a hazardous waste site
		E1.4
E2	Yas No	Is the person responsible for (a) completing, (b) completing and signing, or (c) signing CHEMICAL WASTE REQUISITION Form EWM-197?
E3	Yes No	Does the person SUPERVISE those who generate, treat, or dispose of HAZARDOUS WASTE? (If YES, check all that apply.)
		E3.1 In an R&D organization
		E3.2 In a support organization
		E3.3 At a permitted Treatment, Storage, and Disposal Facility (TSDF) E3.4 At a hazardous waste site
E4	Yes No	Does the person GENERATE RADIOACTIVE WASTE requiring pickup by Waste Management Operations (WMO) for proper disposal?
E5	Yes No	Does the person SUPERVISE those who generate RADIOACTIVE WASTE requiring disposal by Waste Management Operations (WMO)?
E6	Yes No	Does the person's work involve PACKAGING, SHIPPING, OR VEHICULAR TRANSPORT of radioactive or hazardous materials? (If YES, check all that apply.)
		E6.1 HazMat Employee (defined in ANL-E Transportation Safety Manual)
		E6.2 HazMat employee who packages, ships, or transports radioactive materials
		E6.3 HazMat employee who packages, ships, or transports hazardous waste E6.4 Any of the following: coordinator of packaging, shipping, or transportation; Transportation
		E6.4 Any of the following: coordinator of packaging, shipping, or transportation; Transportation Safety Officer or Assistant; DOT Trainer
E7	Yes No	Does the person process, handle, or survey SOLID WASTES (e.g., gurneys, dumpsters, large waste bins)?
Machines and Equipment		
M1	Yes No	Does the person operate any HOISTING AND RIGGING EQUIPMENT? (if YES, check all that apply.)
		M1.1 Crane-related equipment (Check ONLY one.)
		M1.1.1 Electrical overhead travel (EOT) crane (requires 3-day course)
		M1.1.2 Electrical overhead travel (EOT) crane as PFS-MC Frequent inspector
		M1.1.3 Manual- or power-operated hoist, winch, jib, monorail, or floor crane (requires 1-day course)
		M1.2 PFS-SS mobile crane (Pettibone)
		M1.3 Articulating-boom mobile crane (EMO vehicle)
		M1.4 Forklift truck as incidental part of job
		M1.5 Forklift truck as rigger or rigger helper Motorized pollet mover /*nowered walkie*\
		M1.8 Motorized pallet mover ("powered walkie")

M2 Tes N	Is the person a PFS-MC FREQUENT INSPECTOR of manual- and power-operated electrical overhead travel (EOT) cranes and hoisting equipment?	
M3 Tes N	a boot the police. Con this control the police that police the police that the police that police the police that the polic	
M4 Ves N	Does the person SUPERVISE operation of any of the following types of HOISTING AND RIGGING EQUIPMENT? (If YES, check all that apply.) M4.1	
M5	Does the person operate any of the following SPECIALTY VEHICLES OR EQUIPMENT? (If YES, check all that apply.) M5.1 Backhoe, wheel/crawler and skid loader, or tractor/mower (PFS equipment only) M5.2 Backhoe (NOT as a PFS employee) M5.3 PFS truck-mounted elevating/rotating aerial (lift bucket) device M5.4 Industrial tow tractor (APS vehicle) M5.5 Class A or B vehicle	
M6 Yes No	Does the person perform WELDING? (If YES, check all that apply.) M6.1	
M7 Yes No	Does the person use or operate any of the following equipment? (If YES, check all that apply.) M7.1	
	REMINDER	
A. Fill in t	he blanks on page 1.	
B. Answe	r all of the questions as instructed.	
C. Submit	the completed questionnaire to your ESH Coordinator or TMS Representative.	
DEFINITIONS		
Enter without an escort	Authority to enter an area because required training has been successfully completed.	
Escort	An employee who has successfully completed all required training necessary to enter an area. The employee may authorize entry to untrained individuals, if appropriate information about the hazards is provided.	
Hands-on work	Physically operating or manipulating equipment or materials whether or not using personal protective equipment or containment devices (e.g., hood or glovebox).	
R&D activity	Work conducted by members of Argonne's programmatic divisions, most of which include science and engineering research and development activities in laboratories or other experimental facilities. Organizations conducting such activities are called R&D organizations.	
Significant potential for exposure	The significance of the potential exposure depends on the quantity, level, concentration, or intensity of the harmful agent, the severity of the harmful effects if they occurred; and the degree of hazard in the absence of any personal protective equipment.	
Supervise	<u>Personally</u> provide specific instructions and guidance, assign tasks and work locations, or directly oversee day-to-day work. Typically includes first-line managers, group leaders, principal investigators, and foremen.	
Support activity	Generally, work conducted by members of Argonne's non-programmatic divisions, for whom the primary role is to support, rather than to perform, R&D activities.	



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Phone:	(803) 557-4034	
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E-mail:	robert.oliver@srs.gov	
Best Practice Title/Identifier:	SAFE-T Construction Safety Program	
Please provide a brief description of the best practice you are submitting for your site:		
Bechtel-Savannah River Construction Safety personnel have implemented a comprehensive Construction Safety Program at SRS which fully encompasses and promotes the five VPP tenets. An annual brochure is distributed to all employees that provides complete SRS VPP Program information, annual goals and milestones, key VPP contact information, and program implementation guidance. A notable example of BSRI's VPP program is the Self Awareness For Employees Team (S.A.F.ET.) Process. This tool is used to improve workplace safety through observation of work in progress. It involves a process of observing work being done, providing positive and negative feedback regarding observed work practices, and furnishing a forum for workers to anonymously provide comments to improve the overall safety program.		
Please check the applicable category for your best practice:		
✓ Management Le	eadership ☑ Worksite Analysis ☐ Safety and Health Training	
☑ Employee Invol	Ivement	
Other (please spec	cify):	



Name:	Merl Rosenthal	
Organization:	Westinghouse Electric Corporation	
Address:	P.O. Box 2078 Carlsbad, New Mexico	
Phone:	505-234-8902	
FAX:		
E-mail:	rosentm@wipp.carlsbad.nm.us	
Best Practice Title/Identifier:	Predictive Maintenance	
Please provide	a brief description of the best practice you are submitting for your site:	
Predictive Maintenance (PdM) is the concept of using technologies to determine a machine's/component's condition without disturbing normal operations in an effort to forecast required maintenance and maintenance schedules. PdM involves collecting and trending data to reduce or eliminate unnecessary repairs and unexpected failures. Numerous technicians are available for collecting data. WIPP uses three technologies: Infrared Thermography; Ultrasound; and Vibration Analysis. -CONTINUED ON NEXT PAGE		
Please check th	ne applicable category for your best practice:	
☐ Management Le		
☐ Employee Invol	vement ✓ Hazard Prevention and Control	
Other (please spec		

Brief description of the best practice (cont.):

Infrared Thermography is a non-contact technology that makes visible the heat differences in operating equipment. In electrical systems, thermography can detect poor connections; overloads; load imbalances; and faulty, mismatched or improperly installed components. In mechanical systems, it can detect bearing degradation, proper operation of steam traps, building envelopes, and motor problems.

The technology of ultrasound is concerned with sound waves that occur above human perception, usually from 20,000 Hertz and up. When there is an electrical discharge, it disturbs the air molecules around it, producing ultrasound. Therefore, in electrical systems, ultrasound is used to detect corona, tracking or arcing. In mechanical systems, ultrasound can be used to detect bearing degradation, valve operation, compressed air leaks, and vacuum leaks.

In Vibration Analysis, the vibration signature of a piece of machinery is acquired for the purpose of trending and fault identification. The vibration signature provides information concerning the severity of a problem, but it also points to the possible source of the problem. This technique is used on rotating machinery, such as: fans; pumps; motors; and compressors.

as: fans; pumps; motors; and compressors.	
The equipment that is included in the Predictive Maintenance Program is chosen from the essential equipment list and by cognizant and maintenance engineers. Any equipment may be included at any time due to rate of failure and cost of repairs/replacement. Generally, electrical equipment is surveyed every 6 to 12 months or even more often if warranted by history, local conditions, or need. Mechanical equipment is monitored on a quarterly basis (every three months). Periodicity can be changed as conditions change.	

SOUTHEAST

David Smith 301-903-4669

(KY,TN,NC,SC,GA,FL,MS,AL,VA)

The Lockheed Martin Energy Systems at Oak Ridge are proceeding with their DOE-VPP efforts and will report their progress in the next issue. (Submitted by Andy Griffin, 423-241-2434)

After Westinghouse/Bechtel (Savannah River Site) resolves some recordkeeping issues, EH will again consider an on-site review.

Wackenhut Services, Inc. (Savannah River Site) is the first security contractor to apply to the DOE-VPP. WSI-SRS submitted their application to DOE-SR in August 1996. The Wackenhut Services, Inc. VPP Steering Committee receives superior support from SR management and the UPGWA, United Plant Guard Workers Association, in implementing a world class safety and health environment for all employees. All supervisors attended a National Safety Council Hazard Recognition Course. The Wackenhut Services, Inc. VPP Steering Committee is involving the families of our employees through a safety coloring calendar contest. Through the efforts of empowered employees, Wackenhut Services, Inc. reduced its Lost Workday cases by 95% in 1995. (Submitted by Bennie Efirt, 803-557-6862).

SOUTHWEST/ WEST Sanji Kanth 301-903-4516

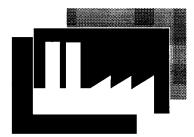
(CA,NV,AZ)

Bechtel Petroleum Operations, Inc (BPOI) in Tuppman, CA. The company is working to address previous scoping visit issues pertaining to process safety management. The scoping visit was conducted in April 1996 by DOE-VPP HQ personnel and an OSHA engineer. BPOI is reassessing its DOE-VPP readiness in light of recent recordable injury/illness rate fluctuations. (Submitted by Kurt Brown)

Bechtel Nevada Test Site submitted its DOE-VPP application to the Nevada Operations Office on September 30th. Don Harvey with Defense Programs visited the site for a week in October to assist Operations Office personnel in the review of the application. The site's three previous contractor programs have been rolled into one administered by Bechtel. The company is addressing Mr. Harvey's comments from the review. (Submitted by Ruby Lopez Owens, 702-295-0953)

HEADQUARTERS Ron Eimer 301-903-4435

Ron Eimer, accompanied by Mike Moore, who works in HQ dealing with EH-related contracting language and performance measures, made a presentation in November to the VPPPA Board of Directors. Mr. Eimer discussed the status of the DOE-VPP. Mr. Moore's presentation covered a general explanation of the DOE contracting process and a discussion of EH performance measures. Both parties entertained questions at the end of the presentations. (Submitted by Ron Eimer, 301-903-4435)



Focus on Programs

Contractor Programs of Note

Westinghouse uses Infrared Thermography to Detect Hot Spots

Westinghouse uses infrared thermography to detect spots in electrical equipment in support of Waste Isolation Pilot Plant's (WIPP) predictive maintenance program. By scanning substations, distribution lighting panels, and electrical motors, Westinghouse maintenance electricians eliminate problems before they cause system failure. The results: A reduction in preventative maintenance jobs and the avoidance of costly operations downtime.

By taking a thermograph of site electrical panels, Westinghouse develops and reads a "heat picture" which reveals components that are overloaded or may become faulty. Unlike normal components, faulty components exhibit higher temperature profiles that are indicative of potential failure.

Thermography verifies that electrical connections are properly made and maintained. Through its usage, to date, several hot spots — mostly loose electrical connections or an unbalanced power load common to hoist transformers — have been identified.

Thermography also detects hot spots that might be overlooked by visual inspections. During one instance, Westinghouse operations interrupted the power supply to an above ground trailer when infrared test equipment detected a hot spot registering 123 degrees over ambient. A fire could have started, resulting in probable loss of valuable records and equipment, had the problem not been intercepted. This method can be extended and applied throughout the complex, once personnel complete a qualification program to use the thermography equipment. (Submitted by Maintenance supervisor Jerry Brown at 505 234-8653)



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FAX:				
E-mail:	rosentm@wipp.carlsbad.nm.us			
Best Practice Title/Identifier:	Lessons Learned			
Please provide	Please provide a brief description of the best practice you are submitting for your site:			
WIPP has developed a lessons learned program to ensure ongoing improvement of plant safety and reliability. The program provides a disciplined and integrated process to identify, communicate, and ensure understanding by employees of applicable lessons learned information gleaned from government industry, and WIPP operating experience.				
Please check the applicable category for your best practice:				
☐ Management Le				
☐ Employee Invol	vement			
Other (please spec	:ifv):			



Name:	Merl Rosenthal		
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Address:	P.O. Box 2078 Carlsbad, New Mexico		
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E-mail:	rosentm@wipp.carlsbad.nm.us		
Best Practice Title/Identifier:	Porcelain Press Information		
The idea for the Poin Carlsbad, New Mand the WIPP Pres The First WIPP Point which is approximately these articles	dea for the Porcelain Press resulted from a visit to the Sandia National Laboratories office rIsbad, New Mexico; the major difference being that their Press deals with a variety of topics he WIPP Press focuses on safety-related information. First WIPP Porcelain Press was published on May 11, 1998, and there have been 31 editions to-date is approximately one edition every 2 weeks or 10 working days. We try not to these articles up for more than 15 days. TINUED ON NEXT PAGE		
Please check th	ne applicable category for your best practice:		
☐ Management Le			
☑ Employee Invol	Ivement		
Other (please spec	cify):		

Brief description of the best practice (cont.):

These newsletters are one page documents placed in plexiglass holders which are mounted on the seated eye-level beside the toilet paper holders inside the restroom stalls, or at standing eye-level the urinals. Additionally, copies are placed in the in-baskets for those employees working in the Wunderground.	above
Topics for these publications are classified as follows: Topic 1 - Voluntary Protection Program	

Topic 2 - National Safety Month

Topic 3 - General Safety

Topic 4 - Integrated Safety Management System

Topic 5 - Radiation/ALARA (As Low As Reasonably Achievable)
Topic 6 - Lessons Learned Bulletins

Specific topics have ranged from announcing presentations/events during National Safety Month to information on the four types of Ionizing Radiation to statistics on distance, and how little time is saved speeding (this article gave details on the distance from town to the WIPP site and the time actually save by going various speeds). Our intentions are to make the topics personal to the WIPP employees and their families, and timely in relation to current events.				



Name:	Tim Tess		
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FAX:	(630) 252-3643		
E-mail:	TJPTess@anl.gov		
Best Practice Title/Identifier:	Construction Safety Program		
Please provide a brief description of the best practice you are submitting for your site: The construction safety program is a complete, start to finish program that is integrated into the entire			
construction proce project; safety expe Analysis is conduc	ss. Safety is assessed beginning in the project design; safety is designed into the ectations are clearly communicated in the contracts and project meetings; Job Safety ted on every phase of the job; field inspections are continuous and rigorous; and lastly inforced. There are many elements of the program, these are but some of the major		
Please check th	ne applicable category for your best practice:		
☐ Management Le	eadership ☑ Worksite Analysis ☐ Safety and Health Training		
☐ Employee Invol	Ivement ☑ Hazard Prevention and Control		
Other (please spec			